Annual Summary Report 1999

Model: 1996 BMW 2.8 liter

Car Line: 328IS, 328IA

Engine Family: TBM2.8VJGKEK Production: 8224

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 1/5/99 Finish: 1/19/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.13 3.4 0.4 0.53 2.5

Average Emissions: 0.10 1.7 0.27 0.10 1.636

Model: 1996 GM 4.3 liter

Car Line: C/K1500 Trucks, Astro/Safari Vans

Engine Family: TGM4.35PGFEK Production: 6606

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 1/12/99 Finish: 1/20/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.41 6.7 0.7 1.40 2.0

Average Emissions: 0.12 1.7 0.29 0.11 0.4

Model: 1996 Chrysler 5.2 liter

Car Line: Dakota 2WD, Grand Cherokee

Engine Family: TCR31828G1EL Production: 13330

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 1/19/99 Finish: 1/27/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.41 6.7 0.7 0.91 2.0

Average Emissions: 0.21 3.2 0.27 0.07 0.2

Model: 1996 Kia 1.8 liter

Car Line: Sephia

Engine Family: TKM1.8VJG1EK Production: 5095

Emissions Status: Passed

Component Defects: Defective Evaporative Hoses (See Page 13)*

Proposed Recall Fix: Replace all evaporative fuel vapor hoses and pipes at

the fuel tank with improved material.

Test Dates Start: 2/2/99 Finish: 2/22/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.53 2.5

Average Emissions: 0.14 1.6 0.19 0.02 1.927

Model: 1996 Honda 2.7 liter

Car Line: Accord

Engine Family: THN2.7VJG1EK Production: 4880

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 2/9/99 Finish: 2/26/99

2 Day

HC CO NOX HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.53 2.0 Average Emissions: 0.17 1.1 0.26 0.04 0.2

Model: 1996 GM 7.4 liter

Car Line: Suburban, Yukon

Engine Family: TGM7.4J8G1EK Production: 7637

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 3/2/99 Finish: 3/15/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.49 6.2 1.4 2.80 2.0

Average Emissions: 0.15 1.6 0.44 0.19 0.2

Model: 1996 Ford 3.0 liter

Car Line: Ford Ranger/Mazda B3000

Engine Family: TFM3.018G1EK Production: 4449

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 3/9/99 Finish: 4/14/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.32 5.2 0.4 0.80 2.0

Average Emissions: 0.17 1.6 0.37 0.26 1.3

Model: 1996 Cummins 5.9 liter

Car Line: Dodge 2500+ turbodiesel

Engine Family: TCE359D6D1AA Production: 5600

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 3/15/99 Finish: 3/19/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 15.5 4.9 0.1

Average Emissions: 0.08 0.5 3.65 3.7 0.07

Model: 1996 Hyundai 1.5 liter

Car Line: Accent

Engine Family: THY1.5VJG2FK Production: 5202

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 3/16/99 Finish: 4/2/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.13 3.4 0.4 0.34 2.0

Average Emissions: 0.06 0.9 0.06 0.07 0.2

Model: 1996 GM 2.2 liter

Car Line: S-10, Sonoma Pickups

Engine Family: TGM2.218GFEK Production: 15173

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 3/22/99 Finish: 3/30/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.80 2.5

Average Emissions: 0.09 2.0 0.21 0.10 0.39

Model: 1996 Subaru 2.2 liter

Car Line: Legacy

Engine Family: TFJ2.2VJG2EK Production: 3362

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 4/6/99 Finish: 4/15/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.13 3.4 0.4 0.53 2.5

Average Emissions: 0.11 1.6 0.14 0.13 0.424

Model: 1996 Suzuki 1.3 liter

Car Line: Metro, Swift

Engine Family: TSK1.3V5GDFB Production: 5686

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 4/13/99 Finish: 4/23/99

2 Day

HCCONOxHwyNoxEVAPEVAPHC+NOxParticulateStandards:0.253.40.40.532.5

Average Emissions: 0.09 1.5 0.10 0.01 0.236

Model: 1996 Chrysler 3.9 liter

Car Line: Dodge Dakota

Engine Family: TCR23928G1EK Production: 7316

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 5/4/99 Finish: 5/7/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.41 6.7 0.7 1.40 2.0

Average Emissions: 0.18 2.5 0.23 0.12 0.6

Model: 1996 DSM 2.4 liter

Car Line: Galant

Engine Family: TDS2.4VJG2EL Production: 14606

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 5/11/99 Finish: 5/24/99

2 Day

<u>HC CO NOx HwyNox EVAP</u> EVAP HC+NOx Particulate

Standards: 0.13 3.4 0.4 0.50 2.5

Average Emissions: 0.10 1.8 0.12 0.07 0.601

Model: 1996 Nissan 3.0 liter

Car Line: Maxima, I30

Engine Family: TNS3.0VJGFEK Production: 24399

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 5/18/99 Finish: 12/15/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.70 2.0

Average Emissions: 0.09 0.9 0.31 0.13 0.7

Model: 1996 GM 4.6 liter

Car Line: Cadillacs, Aurora

Engine Family: TGM4.6VJGFEL Production: 19561

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 5/25/99 Finish: 6/16/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.32 5.2 0.4 0.53 2.0

Average Emissions: 0.24 1.9 0.27 0.08 0.3

Model: 1996 Mazda 1.8 liter

Car Line: MX-5 Miata

Engine Family: TTK1.8VJGKEK Production: 2822

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 6/8/99 Finish: 6/18/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.53 2.0

Average Emissions: 0.19 1.4 0.22 0.04 0.2

Model: 1997 BMW 1.9 liter

Car Line: 318, Z3

Engine Family: VBM1.9VJGKFK Production: 5191

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 6/15/99 Finish: 7/14/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.13 3.4 0.4 0.53 2.5

Average Emissions: 0.09 0.9 0.28 0.23 1.062

Model: 1997 Ford 5.4 liter

Car Line: Expedition/F250

Engine Family: VFM5.4J8G1FK Production: 20488

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 6/22/99 Finish: 6/30/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

 Standards:
 0.39
 5.0
 1.1
 2.20

 Average Emissions:
 0.13
 1.0
 0.17
 0.10

Model: 1997 Honda 1.6 liter

Car Line: Civic

Engine Family: VHN1.6VJG3EK Production: 41960

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 7/13/99 Finish: 7/29/99

2 Day

HCCONOxHwyNoxEVAPEVAPHC+NOxParticulateStandards:0.103.40.30.402.5

Average Emissions: 0.05 1.8 0.10 0.04 0.241

Model: 1997 Chrysler 5.2 liter

Car Line: Grand Cherokee, Dakota

Engine Family: VCR36028G1EK Production: 12801

Emissions Status: Passed Component Defects: None

Average Emissions: 0.20

Proposed Recall Fix:

Test Dates Start: 7/22/99 Finish: 8/19/99

3.4

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

0.13

Standards: 0.32 4.4 0.7 1.40 2.0 2.5

0.35

0.2

0.441

Model: 1997 GM 4.3 liter

Car Line: Astro, Safari

Engine Family: VGM4.32PG2EK Production: 14611

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 7/28/99 Finish: 8/3/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.16 4.4 0.7 1.40 2.5

Average Emissions: 0.11 1.7 0.28 0.20 0.231

Model: 1997 Nissan 4.1 liter

Car Line: Q45

Engine Family: VNS4.1VJG1EK Production: 4334

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 8/3/99 Finish: 8/20/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.50 2.0

Average Emissions: 0.12 1.3 0.19 0.07 0.2

Model: 1997 Kia 2.0 liter

Car Line: Sportage

Engine Family: VKM2.01JG1EK Production: 4059

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 8/10/99 Finish: 8/30/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.80 2.5

Average Emissions: 0.15 1.5 0.15 0.07 0.327

Model: 1997 Hyundai 1.8 liter

Car Line: Elantra

Engine Family: VHY1.8VJG1EK Production: 3479

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 8/17/99 Finish: 9/3/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.53 2.5

Average Emissions: 0.19 0.9 0.29 0.07 0.906

Model: 1997 GM 5.7 liter

Car Line: Camaro, Firebird, Corvette

Engine Family: VGM5.7V8G1EK Production: 4136

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 9/8/99 Finish: 10/13/99

2 Day

HC CO NOX HwyNox EVAP EVAP HC+NOX Particulate

Standards: 0.25 3.4 0.4 0.80 2.0

Average Emissions: 0.17 2.9 0.31 0.30 0.2

Model: 1997 Chrysler 4.0 liter

Car Line: Grand Cherokee, Cherokee

Engine Family: VCR24228G2JK Production: 13806

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 9/14/99 Finish: 10/13/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.16 4.4 0.7 1.40

Average Emissions: 0.06 0.8 0.22 0.03

Model: 1997 Mercedes Benz 2.3 liter

Car Line: C230

Engine Family: VMB2.3VJGKEK Production: 5593

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 9/21/99 Finish: 9/29/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.13 3.4 0.4 0.70 2.0

Average Emissions: 0.06 0.6 0.07 0.02 0.4

Model: 1997 Mitsubishi 2.5 liter

Car Line: Chrysler Sebring, Dodge Avenger

Engine Family: VDS2.5VJGKEK Production: 3859

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 9/28/99 Finish: 10/8/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.50

Average Emissions: 0.14 1.0 0.23 0.03

Model: 1997 GM 5.0 liter

Car Line: C1500, K1500, G1500, Savana Vans

Engine Family: VGM5.0HPG1EK Production: 4622

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 10/5/99 Finish: 10/13/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.40 5.5 0.9 1.80 2.0

Average Emissions: 0.21 2.1 0.26 0.21 0.2

Model: 1997 Land Rover 4.0 liter

Car Line: Discovery

Engine Family: VLR4.058GFFK Production: 2273

Emissions Status: Passed

Component Defects: Evaporative system defects (See Page 13)*

Proposed Recall Fix: To be determined.

Test Dates Start: 10/12/99 Finish: 11/12/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.32 4.4 0.7 1.40 2.5

Average Emissions: 0.26 2.3 0.38 0.49 0.874

Model: 1997 GM 4.3 liter

Car Line: Pickups: S10, Sonoma, Hombre

Engine Family: VGM4.31PG1EK Production: 9957

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 10/26/99 Finish: 11/2/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.53

Average Emissions: 0.14 1.7 0.28 0.11 0.745

Model: 1997 Volvo 2.9 liter

Car Line: 960

Engine Family: VVV2.9VJGFEL Production: 2950

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 11/2/99 Finish: 11/5/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.25 3.4 0.4 0.55 2.0

Average Emissions: 0.12 1.4 0.05 0.01 0.5

Model: 1997 VW 2.8 liter

Car Line: Golf, Jetta, Passat

Engine Family: VVW2.8V8GFGM Production: 3442

Emissions Status: Passed Component Defects: None

Proposed Recall Fix:

Test Dates Start: 11/9/99 Finish: 11/17/99

2 Day

HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.32 5.2 0.4 0.53 2.0

Average Emissions: 0.14 1.2 0.20 0.04 0.3

Model: 1997 TOYOTA 2.2 liter

Car Line: Camry

Engine Family: VTY2.2VJG3GK Production: 44619

Emissions Status: Passed

Component Defects: OBD Evap Leak Detection Failure

Proposed Recall Fix: To Be Determined

Test Dates Start: 11/16/99 Finish: 12/31/99

2 Day

Standards: O.10 Standards: HC ON NOX HWYNOX EVAP EVAP HC+NOX Particulate 2.5

 Standards:
 0.10
 3.4
 0.3
 0.40
 2.5

 Average Emissions:
 0.06
 1.0
 0.14
 0.04
 0.218

Model: 1997 FORD 5.0 liter

Car Line: Explorer, Mountaineer

Engine Family: VFM5.028GFEK Production: 21625

Emissions Status: Passed

Component Defects: OBD Evap Leak Detection Failure

Proposed Recall Fix: To Be Determined

Test Dates Start: 12/7/99 Finish: 12/31/99

2 Day
HC CO NOx HwyNox EVAP EVAP HC+NOx Particulate

Standards: 0.32 4.4 0.7 1.40 2.5

Average Emissions: 0.15 2.2 0.12 0.16 0.377

*	It was determined that the hydrocarbon levels in the SHED would have surpassed the safety margin for testing a vehicle with the evaporative component defect. The ARB estimates that with the evaporative component defect, the emissions levels would be greater than 8 grams/test.